Intel® Server Board S2600KP Product Family
Intel® Compute Module HNS2600KP Product Family
Intel® Server Chassis H2000G Product Family

Spares/Accessories List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Board S2600KP Product Family and the appropriate 2U Intel® Rack Mount Server Systems

Revision 1.4

May 2015

Platform Collaboration and Systems Division

Revision History

May ’13	Rev. 0.1	Initial release for Alpha
Nov. ’13	Rev. 0.61	Update product code name
Dec. ’13	Rev. 0.62	Update some description
Jan. ’14	Rev. 0.66	Update product code for accessory and spare parts
Apr. ’14	Rev. 0.8	Update description and add some pictures
June ’14	Rev. 0.83	Update some MOQ
July ’14	Rev. 0.9	Update UPC, EAN
Aug. ’14	Rev. 0.95	Add some bridge boards and update some description
Sep. ’14	Rev. 1.00	Production Candidate
Nov. ’14	Rev. 1.1	Add some new accessories
Dec. ’14	Rev. 1.2	Update IO module part
Mar. ’15	Rev. 1.3	Update UPC, EAN
May’15	Rev. 1.4	Add 40G IOM support, update 12G RAID adapters

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1. System Product Order Codes

1.1 Product Descriptions – Overview

Products based on the Intel® Server Board S2600KP Product Family will be offered in variety of options to provide the flexibility and facility for customer.

Boards will be offered as 10-pack at launch.

Compute modules will be offered as 1-pack at launch.

Chassis will be offered as KDK at launch. It will include 2 power supplies, but compute module will be excluded.

1.2 Summary Chart

For a quick overview, all configuration options are summarized on below chart. Reference details below in this document for MM numbers, configuration details and product order codes.

Chassis shipped to the US & Canada will contain North American power cords. North American customers no longer need to order skus ending in "NA" to receive power cords.

Board:

Product code	Form Factor	Integrated InfiniBand*	RMM4 Lite Key	RAID Activation Key
BBS2600KP	6.4" W x 17.7" L	No	Not included	Not included
BBS2600KPF	6.4" W x 17.7" L	Yes (FDR 56Gb/s)	Not included	Not included

Compute Module:

Product code	Form Factor	Integrated InfiniBand*	Slot1 x16 PCIe* Riser	rIOM riser /Carrier	RMM4 Lite Key	RAID Activation Key
HNS2600KP	1U	No	Included	Not included	Not included	Not included
HNS2600KPF	1U	Yes (FDR 56Gb/s)	Included	Not included	Not included	Not included

Chassis (KDK):

Product code	Form Factor	HDD	# of HDD	Power supply	Rails	Compute Module
H2312XXKR2	2U	3.5	12	2x1600W AC	Value	Not included
H2216XXKR2	2U	2.5	16	2x1600W AC	Value	Not included

1.3 Available Production Board Order Codes

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**BBS2600KP** **933683** 735858288309 5032037067621 10	The production Intel® Server Board S2600KP (10 bulk pack version) - 6.4" W x 17.7" L - 8 x DIMMs support DDR4 R/LR DIMMs - 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port - 2 PCIe* 3.0 x24 capable slots and 1 PCIe* 3.0 x16 capable slot (not PCI-SIG* compatible) - Dual integrated 1GbE based on Intel® Ethernet Controller I350 - Dedicated 1GbE management port onboard - Compatible with Intel® Xeon® processor E5-2600 v3 Product Family
 *Demo only	**BBS2600KPF** **933685** 735858288316 5032037067638 10	The production Intel® Server Board S2600KPF (10 bulk pack version) - 6.4" W x 17.7" L - 8x DIMMs support DDR4 R/LR DIMMs - 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port - 1 PCIe* 3.0 x24 capable slot and 2 PCIe* 3.0 x16 capable slots (not PCI-SIG* compatible) - Dual integrated 1GbE based on Intel® Ethernet Controller I350 - Dedicated 1GbE management port onboard - Compatible with Intel® Xeon® processor E5-2600 v3 Product Family - Single InfiniBand* FDR IB port (Connect-IB* x8, QSFP+)

1.4 Available Production Chassis Order Codes

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**H2312XXKR2** **933689** 735858288347 5032037067669 1	The production Intel® Server Chassis H2312XXKR2 - 2U H2000G Chassis (front panel FH2000FPANEL2 included, Power Distribution Board FXXCRPSPDB2 included) - 2 x 1600W 80 PLUS Platinum PSUs (FXX1600PCRPS) - 12 x 3.5" Hot-swap HDDs support (carriers FXX35HSCAR included, backplane FHW12X35HS12G) - 4 x Blank Node Fillers - Basic rack rail (AXXELVRAIL) **Note:** The rail kit only supports specific rack type with 3/8" square and 7.1mm round holes.
 *Demo only	**H2216XXKR2** **933688** 735858288354 5032037067676 1	The production Intel® Server Chassis H2216XXKR2 - 2U H2000G Chassis (front panel FH2000FPANEL2 included, Power Distribution Board FXXCRPSPDB2 included) - 2 x 1600W 80 PLUS Platinum PSUs (FXX1600PCRPS) - 16 x 2.5" Hot-swap HDDs support (carriers FXX25HSCAR2 included, backplane FHW16X25HS12G) - 4 x Blank Node Fillers - Basic rack rail (AXXELVRAIL) **Note:** The rail kit only supports specific rack type with 3/8" square and 7.1mm round holes.

1.5 Available Production Compute Module Order Codes

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only The compute module does not include I/O Module riser and carrier kit	**HNS2600KP** **933687** 735858288323 5032037067645 1	The production Intel® Compute Module HNS2600KP - Intel® Server Board S2600KP included - Node Power Board FH2000NPB2 included - Bridge Board FHWKPTPBGB included - Slot1 riser card FHW1U16RISER2 included - 3 x 4056 dual rotor fans FXX4056DRFAN2 included - 1U passive heat sinks (one FXXEA91X91HS2 for front and one FXXCA91X91HS for rear) included - Air duct included - 1U node tray included
 *Demo only The compute module does not include I/O Module riser and carrier kit	**HNS2600KPF** **933686** 735858288330 5032037067652 1	The production Intel® Compute Module HNS2600KPF - Intel® Server Board S2600KPF included (InfiniBand* FDR) - Node Power Board FH2000NPB2 included - Bridge Board FHWKPTPBGB included - Slot1 riser card FHW1U16RISER2 included - 3 x 4056 dual rotor fans FXX4056DRFAN2 included - 1U passive heat sinks (one FXXEA91X91HS2 for front and one FXXCA91X91HS for rear) included - Air duct included - 1U node tray included

2. Spares and Accessories Order Codes

2.1 General Spares and Accessories

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**AXXRMM4LITE** **911660** 735858219297 5032037014946 1	Activation key for advanced management features
 *Demo only	**AXXKPTPIOM** **935524** 735858288385 5032037067706 1	PCI Express x16 (200 pin) rIOM riser and rIOM carrier board kit for supporting Intel® I/O module (on slot 2) for Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family **NOTE**: Intel® I/O modules must have AXXKPTPIOM pre-installed. The production compute module and chassis configurations do **NOT** include AXXKPTPIOM.
 *Demo only	**FHW1U16RISER2** **935565** 735858288392 5032037067713 1	1U PCI Express x16 riser card for supporting in-board low-profile PCIe card (on slot 1) on Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family
	AHWKPTPBOB **936274** 735858288408 5032037067720 1	Break out board accessory providing additional SATA ports for board only customers for Intel® Server Board S2600KP Product Family and Intel® Server Board S2600TP Product Family.

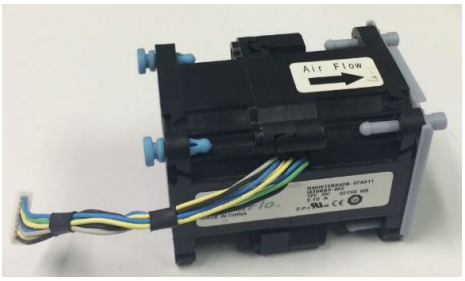
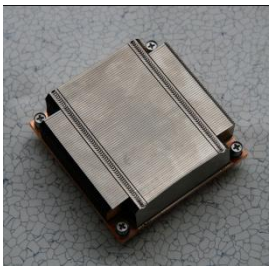
Image	Product Code MM UPC EAN MOQ	Description
 *Demo only - TBD	**FXX4056DRFAN2** **935566** 735858288439 5032037067751 1	40x56mm Dual Rotor Fan spare
 *Demo only - TBD	**FXX1600PCRPS** **915606** 735858243650 5032037038294 1	1600W AC Common Redundant Power Supply FXX1600PCRPS 80Plus Platinum-Efficiency
 *Demo only	**BXSTS200P** **915972** 735858221795 5032037014472 1	1U Standard Boxed Cu/Al 91.5mm x 91.5mm Heat Sink (Rear Heat Sink)
 *Demo only	**FXXCA91X91HS** **918250** 735858236614 5032037031387 2	1U Standard Cu/Al 91.5mm x 91.5mm Heat Sink (Rear Heat Sink).

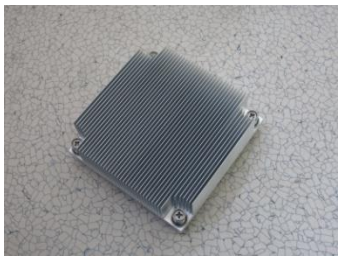
Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**FXXEA91X91HS2** **937228** 735858287982 5032037067539 2	1U Standard Ex-Al 91.5mm x 91.5mm Heat Sink (Front Heat Sink).
   *Demo only	**FHW12X35HS12G** **935567** 735858288446 5032037067768 1	12 x 3.5" spare backplane for Intel® Server Chassis H2312XXKR2.
   *Demo only	**FHW16X25HS12G** **935573** 735858288453 5032037067775 1	16 x 2.5" spare backplane for Intel® Server Chassis H2216XXKR2.
 *Demo only	**FH2000NPB2** **935574** 735858288477 5032037067799 1	Spare Node Power Board (Compute Module Power Docking Board) for Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family.

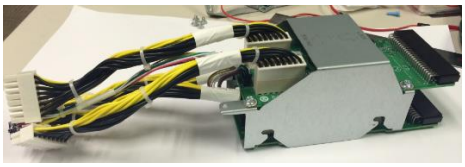
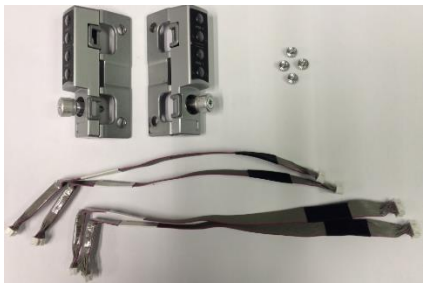
Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**FHWKPTPBGB** **935575** 735858288422 5032037067744 1	Spare 6Gb/s SATA Bridge Board for Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family.
 *Demo only	**FXXCRPSPDB2** **935576** 735858288460 5032037067782 1	Spare Power Distribution Board Module including 2 boards, cables, a bus pair and supporting bracket, etc for Common Redundant Power Supply 1600W of Intel® Server Chassis H2000G Product Family.
 *Demo only	**FH2000FPANEL2** **935578** 735858288415 5032037067737 1	Spare front control panel kit (2 mini-front panel boards and rack handle assembly, etc) for Intel® Server Chassis H2000G Product Family.
 *Demo only	**FXX25HSCAR2** **937542** 735858289405 5032037068383 8	Spare 2.5” HDD hot swap carriers

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**FXX35HSCAR** **936192** 735858289412 5032037068390 8	Spare 3.5” HDD hot swap carriers
 *Demo only	**AXXELVRAIL** **920970** 735858244367 5032037038980 1	Value Rail Kit, half extension, extended inner slide member
 *Demo only	**FPWRCABLENA** **879287** 735858181129 5032037015738 1	North American Power Cord Spare
 *Demo only	**A2UBEZEL** **918086** 735858241137 5032037035880 1	2U locking bezel with two branding clip-on inserts

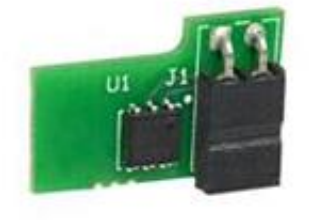
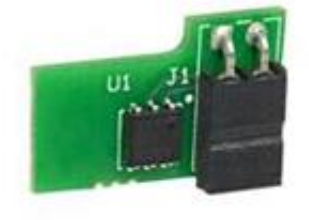
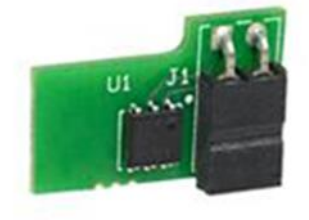
2.2 Dynamic Key Spares and Accessories

Image	Product Code MM UPC EAN MOQ	Description
 Demo only	**RKSATA4R5** **916346** 735858238861 5032037033640 5	Raid activation key. Activates RSTe SW RAID 0/1/10/5 and LSI* SW RAID 0/1/10/5 (enables LSI* SWR5), Black.

2.3 6Gb/s SAS & HW RAID

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**AHWJFWP6GBGB** **922862** 735858250047 5032037044622 1	6Gb/s SAS bridge board and cable accessories kit (not cable-free) for Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family **NOTE**: 6Gb/s SAS module is NOT included. Customer must order 6Gb/s SAS module RMS25KB040 or RS25FB044 separately.
 *Demo only	**AHWKPTP12GBGB** **935580** 735858288484 5032037067805 1	12Gb SAS Bridge Board (RAID 0/1/10) for Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family – Available later in Q1 2015 **NOTE**: 12Gb/s SAS chip is included on the bridge board.
 *Demo only	**AHWKPTP12GBGB R5** **937453** 00735858288903 5032037068185 1	12Gb SAS Bridge Board (RAID 0/1/10/**5**) for Intel® Compute Module HNS2600KP and HNS2600TP Product Family – Available later in Q1 2015 **NOTE:** 12Gb/s SAS chip is included on the bridge board.
 *Demo only	**RMS25KB040** **917090** 735858239035 5032037033817 5	SAS Module: 4 Port SAS-2.1 version, Entry-level HW RAID/straight SAS PCIe form factor. **Note:** The FW of 2U4Node version is needed when use the RMS25KB040 in H2000G chassis, visit www.intel.com/support/ to download the FW. **Note:** Customer should order **AHWJFWP6GBGB** when use this adapter in the H2000G chassis

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**RS25FB044** **921700** 735858247665 5032037042543 5	Intel® RAID Controller RS2FB044 is a SAS2 6Gb/s PCIe Gen3 x8, 4i & 4e Port SAS Controller with entry-level HW RAID 0/1/1E/10E and JBOD mode in a low profile, half-length MD2 compliant form factor. **Note:** The FW of 2U4Node version is needed when use this adapter in H2000G chassis, visit www.intel.com/support/ to download the FW. **Note:** Customer should order **AHWJFWP6GBGB** bridge board when use this adapter in the H2000G chassis.
	RS3GC008 **928220** 00735858267175 5032037053839 5	**Intel® RAID Controller RS3GC008** Low Profile, half length, (MD2 Compliant) PCIe* add-in card Entry Level SAS Card 8 external SAS / SATA ports LSI* SAS3008 IOC RAID Levels – JBOD (SAS Connectivity) **Note:** SAS Data cables not included. Must be purchased seperately
	RS3SC008 **928223** 00735858266956 5032037068567 5	**Intel® RAID Controller RS3SC008** Low Profile, half length, (MD2 Compliant) PCIe* add-in card 8 external SAS / SATA ports LSI* SAS3108 ROC RAID Levels – 0, 1, 5, 6, 10, 50, and 60 Embedded 1GB DDR3 Cache Memory Supports Maintenance Free Backup Unit **AXXRMFBU4.** **Note:** AXXRMFBU4 support is only for server board customer, H2000G chassis cannot support it as no enough space. **Note:** SAS Data cables not included . Must be purchased seperately

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**AXXRPFKSSD2** 915316 735858221467 5032037051699 5	Upgrade Key to enable SSD Cache with Fast path I/O for Intel's RAID RS25 family of ROC products.
 *Demo only	**AXXRPFKDE2** 915317 735858221474 5032037051705 5	Upgrade Key to enable Drive Encryption Management for Intel's RAID RS25 family of ROC products
 *Demo only	**AXXRPFKSNSH2** 915318 735858221481 5032037051712 5	Upgrade Key to enable Rapid Recovery Snapshot for Intel's RAID RS25 family of ROC products.

2.4 Expansion Modules: I/O Module

IMPORTANT NOTICE:

All below I/O modules MUST have **AXXKPTPIOM** (MM# 935524) pre-installed in system.

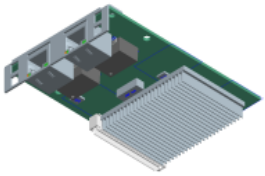
Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**AXX10GBNIAIOM** **917905** 735858241090 5032037035842 1	Dual SFP+ port 10GbE IO module based on Intel® 82599 10 Gigabit Ethernet Controller Supports direct connect or transceiver. Cables/transceivers not included. Includes three screws
 *Demo only	**AXX10GBTWLHW3** **941868** 735858296649 5032037072465 1	Dual RJ-45 port 10GBASE-T IO module, based on Intel® Ethernet Controller X540 – Available in early Q2 2015
 *Dual ports shown	**AXX1FDRIBIOM** **918607** 735858241106 5032037035859 1	Single port, FDR 56GT/S speed Intel® I/O Expansion Infiniband* module, with QSFP connector, based on Mellanox* CX3 MT27504A1-FCCR-FV chip. Includes three screws *Dual port shown on picture
 *Demo only	**AXX2FDRIBIOM** **920627** 735858245722 5032037040235 1	Dual port, FDR 56GT/S (per port capable) speed Infiniband* module, with QSFP connector, based on Mellanox* CX3 MT27508A1-FCCR-FV chip. Note, due to PCIe3 x8 bandwidth limitation, both ports can't simultaneously function at full speed. Includes three screws.

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**AXX4P1GBPWLIO**M **917911** 735858241083 5032037035835 1	Quad port 1GbE IO Module based on Intel® Ethernet Controller I350
 *Demo only	**AXX1P40FRTIOM** **933742** 735858282291 5032037063623 1	**Intel® I/O Modules AXX1P40FRTIOM** Intel® Single 40G QSFP+ Ethernet I/O Moduless based on XL710-AM2 10 Gigabit Ethernet Controller Available Optics Accessories: Intel® Ethernet QSFP+ SR4 Optics, **E40GQSFPSR** Intel® Ethernet 40G DCO Optics, **E40GDCOQSFP** Connector and cables: 40GBASE-CR4, QSFP+ Direct Attached Copper Cable Intel® Ethernet QSFP+ SR4 Optics also supported Intel® Ethernet 40G DCO Optics, **E40GDCOQSFP** Cabling type: 10GBASE-CR4: Copper Direct Attach passive cable (1–7m); 10GBASE-SR4: MMF (OM3) up to 100m Intel® Ethernet 40G DCO Optics up to 50m Kits Include: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (2 Port only model) (1 set) Mounting screws

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	**AXX2P40FRTIOM** **933743** 735858282314 5032037063647 1	**Intel® I/O Modules AXX2P40FRTIOM** Intel® Dual-Port 40G QSFP+ Ethernet I/O Moduless based on XL710-AM2 10 Gigabit Ethernet Controller On the dual port module, the 4x10GbE SFP+ break out is supported on Port 0 only Available Optics Accessories: Intel® Ethernet QSFP+ SR4 Optics, **E40GQSFPSR** Intel® Ethernet 40G DCO Optics, **E40GDCOQSFP** Connector and cables: 40GBASE-CR4, QSFP+ Direct Attached Copper Cable Intel® Ethernet QSFP+ SR4 Optics also supported Intel® Ethernet 40G DCO Optics, **E40GDCOQSFP** Cabling type: 10GBASE-CR4: Copper Direct Attach passive cable (1–7m); 10GBASE-SR4: MMF (OM3) up to 100m Intel® Ethernet 40G DCO Optics up to 50m Kits Include: (1) I/O module (1) EMI shield (1) Port Labeling Sticker (2 Port only model) (1 set) Mounting screws

2.5 Service: Extended Warranty

Image	Product Code MM MOQ	Description
	SVCEWHWSY 923113 1	Extended Warranty for complete system (1x Intel® Server Chassis H2000G + 4x Intel® Compute Module HNS2600KP), Single
	SVCEWHWB 914905 1	Extended Warranty for single node (1x Intel® Compute Module HNS2600KP), Single
	SVCEWDPBD 911294 1	Extended warranty for the mainboard only (for use with 3rd party chassis; applies to board only skus BBS2600KP, BBS2600KPF)